

Intramural Natural History Protocol Template Instructions

Instructions Manual

The goal of this manual is to provide guidance in the creation of a natural history (NH) protocol utilizing the NIAID intramural protocol template.

The organization of the manual combines the shell of the protocol template (with elements such as the table of contents, section headers, and appendices), with sample language, instructions and hyperlinks to resources.

A number of typographic and layout styles have been utilized in this manual, to assist in distinguishing types of information.

- Regular font Arial: indicates sample language.
- *Italicized Times New Roman*: indicates instructions or guidance.
- [Underlined blue italicized font](#): indicates a hyperlink to a resource or a cross-referenced section of the document. To access a link, place the mouse on the underlined text and hit Ctrl + Click.
- Each section will start with sample language (if applicable), followed by instructions or guidance.

Template Documents

There are two templates:

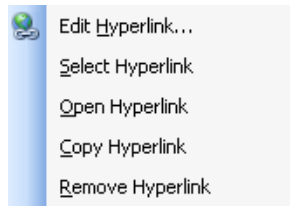
The “NH Template – Blank” template contains only required ethics and safety language and may be preferred by more experienced investigators.

The “NH Template –Sample Language” template contains sample language presented here, in addition to the required safety and ethics language. Note that sample language *is suggested language only, and should be removed or modified by the investigator as applicable to the protocol.*

The templates provide a general format applicable to natural history research protocols. The templates are located on the DCR website under [Clinical Research toolkit](#). The templates are composed table of contents, section headers, appendices. Where applicable, section headings should be preserved in the protocol document in the same order as provided in the template. If a particular section header is not applicable to the protocol, please delete it. However, please do not change the order of the sections, even if the section numbering changes. Please *do* change the Version date and number as applicable, for the final protocol document. Note that the Protocol Template version is on the title page and that the protocol version placeholder follows in the header area of the remaining pages.

Typographic and layout styles have also been employed in the template documents:


- Regular font Arial: indicates core document and sample language, *non-applicable language should be deleted from the final protocol.*
- *Italicized Times New Roman*: indicates instructions or placeholders *and should be deleted from the final protocol.*
- [Bracketed items] or XX: indicate placeholders *and should be replaced or deleted as appropriate.*
- *Underlined blue italicized font*: indicates a hyperlink to a resource or a cross-referenced section of the document. To access a link, place the mouse on the underlined text and hit Ctrl + Click. To change or remove a link, highlight the underlined text + Right Click and select the desired action:



How to save the template as a Word Document:

- Double click the template on the website
- Click **File/Save As**.
- When the **Save As** dialog box opens, rename the protocol document and change **Files of type...** to **Word Document (*.doc)**, click **Save**.

How to save the template to your local computer (if you are using a PC):

- Double click the template on the website
- Click **File/New** (do not click the  icon). A **New Document** dialog box will open on the right-hand side of the screen.
- Under **Templates**, click  **On my computer...**, a **Template** dialog box will open. Rename the template something that is easy to remember.
- The next time you wish to open a template rather than a document, click **File/Open**, change **Files of type...** to **Document Templates (*.dot)**, click **Open**.
- Modify the protocol template to create a new similar protocol, making sure to rename it following the instructions above.

This is version 1.0 of the templates. It is anticipated that the templates will be modified based on changes in regulations and user input. Your feed-back is valued; please refer questions or comments regarding use of these protocol templates to Heather Bridge at 301-451-2419.

Title

(FULL PROTOCOL TITLE)

The title should be easy to remember, recognizable by administrative support staff, and sufficiently different from other protocol titles to avoid confusion. Brevity with specificity is the goal, be sure to include identifying key words.

NIAID Protocol Number: ##-I-A/N###

This number is assigned by the Office of Protocol Services (OPS) after approved by the Clinical Center Director. The first two digits represent the fiscal year in which the protocol is approved; the letter(s) represent the Institute abbreviation ("I" for NIAID, or "CC" for Clinical Center) and the last four digits represent the next available sequential number for new protocols in that fiscal year (A/N stands for alphanumeric, protocols conducted intramurally will have four numbers, protocols IDs with an "N" in the first position indicate that the protocol will only be conducted offsite). The first protocol version submitted to the IRB will not have a protocol number. However, a version description is recommended. Examples of version descriptions are "Initial IRB Submission" or "Response to IRB stipulations".

Sponsored by:
National Institute of Allergy and Infectious Diseases (NIAID)

Principal Investigator:

Draft or Version Number:

All versions should have a version number (v.1.0 beginning with the approved initial review) and a submission date. To see the Memo from the Clinical Director go to the NIAID DCR IRB portal/Clinical Research Guidance/Guidance for Investigators/Protocol Requirements (04-27-01), to see the latest Version Control guidance document go to the RCHSPB portal/Clinical Trials Management (Monitoring)/Protocol Version Control.

Version Date

Use the international date format (day month year) and write out the month, e.g., 23 June 2005.

Statement of Compliance

(Sample Language)

The study will be conducted in accordance with the design and specific provisions of this IRB-approved protocol, in accordance with the ethical principles that have their origin in the Declaration of Helsinki. The Principal Investigator will assure that no deviation from, or changes to the protocol will take place without prior agreement from the sponsor and documented approval from the IRB, except where necessary to eliminate an immediate hazard(s) to the study participants. The Principal Investigator will promptly report to the IRB and the sponsor any changes in research activity and all unanticipated problems involving risk to human subjects, or others.

Use the applicable regulations and requirements depending on study location, local IRB FWA and if applicable, sponsor requirements. Examples of requirements that are applicable include:

- *U.S. Code of Federal Regulations applicable to clinical studies ([45 CFR 46](#), Parts A through D) concerning informed consent and IRB regulations.*
- *The Belmont Report.*

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This list should be modified to include protocol-specific terms. Review the sample list of abbreviations, insert additional abbreviations and remove non-applicable abbreviations. To edit this table:

- *To remove a row from the table: Highlight the desired row and Right Click; Select “Delete cells...” Select “Delete entire row”.*
- *To add a row to the table: Highlight the desired row; On the menu bar, select “Table”; Select “Insert”; Select either “Rows Above” or “Rows Below”.*

List of Abbreviations

AE	Adverse Event/Adverse Experience
CFR	Code of Federal Regulations
CIOMS	Council for International Organizations of Medical Sciences
CLIA	Clinical Laboratory Improvement Amendment of 1988
COI	Conflict of Interest
CONSORT	Consolidated Standards of Reporting Trials
CRADA	Cooperative Research and Development Agreement
CRF	Case Report Form
CRO	Contract Research Organization
CRIMSON	Clinical Research Information Management System of the NIAID
DCR	Division of Clinical Research
DHHS	Department of Health and Human Services
FWA	Federal Wide Assurance
GCP	Good Clinical Practice
HIPAA	Health Insurance Portability and Accountability Act
ICF	Informed Consent Form
ICH	International Conference on Harmonization
IEC	Independent or Institutional Ethics Committee
IRB	Institutional Review Board
ISM	Independent Safety Monitor
MedDRA ©	Medical Dictionary for Regulatory Activities
MOP	Manual of Procedures/Manual of Operations
N	Number (typically refers to participants)
NCI	National Cancer Institute, NIH
NIAID	National Institute of Allergy and Infectious Diseases
NIH	National Institutes of Health
OHRP	Office for Human Research Protections
OHSR	Office of Human Subjects Research
PHI	Protected Health Information
PI	Principal Investigator
PK	Pharmacokinetics
QA	Quality Assurance
QC	Quality Control
RCHSPB	Regulatory Compliance and Human Subjects Protection Branch
RCHSPP	Regulatory Compliance and Human Subjects Protection Program
SAE	Serious Adverse Event/Serious Adverse Experience
SMC	Safety Monitoring Committee

SOP Standard Operating Procedure
WHO World Health Organization

Protocol Summary

Limit Protocol Summary to 2 pages.

Full Title:	<i>Enter the full title</i>
Short Title:	<i>Must be 30 characters or less (count must include spaces). To check count: Select “Tools” from the menu bar; Select “Word Count”; Read “Characters (with spaces)”</i>
Conducted by:	<i>Name of Network or Program</i>
Principal Investigator:	<i>Name of Principal Investigator</i>
Sample Size:	<i>N= If more than one cohort also indicate sample size per cohort.</i>
Accrual Ceiling:	<i>Include sample size plus an estimate for screening failures.</i>
Study Population:	<i>Include a brief description such as health status (e.g., healthy volunteers or HIV-positive), gender, age, etc.</i>
Accrual Period:	<i>Length of time to completely enroll the study. May include a projected start date.</i>
Study Design:	<i>Provide an overview of the study design, including description of study type (e.g., double-masked, placebo-controlled, open label, dose-finding, parallel or crossover design, randomized), study arms, sample size and schedule of interventions (e.g., vaccine administration), if applicable</i>
Study Duration:	Start Date: End Date: <i>Provide the total length of time participants will be on study (intervention + follow-up,) include a projected end date.</i>
Primary Objective:	<i>Include primary outcome measures and method by which outcomes will be determined.</i>
Secondary Objectives:	<i>Include secondary outcome measures and method by which outcomes will be determined.</i>
Exploratory Objectives:	<i>(If applicable) Include exploratory outcome measure(s) that may ask separate research questions from the parent protocol.</i>
Endpoints:	<i>Include the primary measurements and endpoints used to determine efficacy.</i>

Précis

Attach a one paragraph (<400 words) summary of the study objectives, study design, and outcome measures.

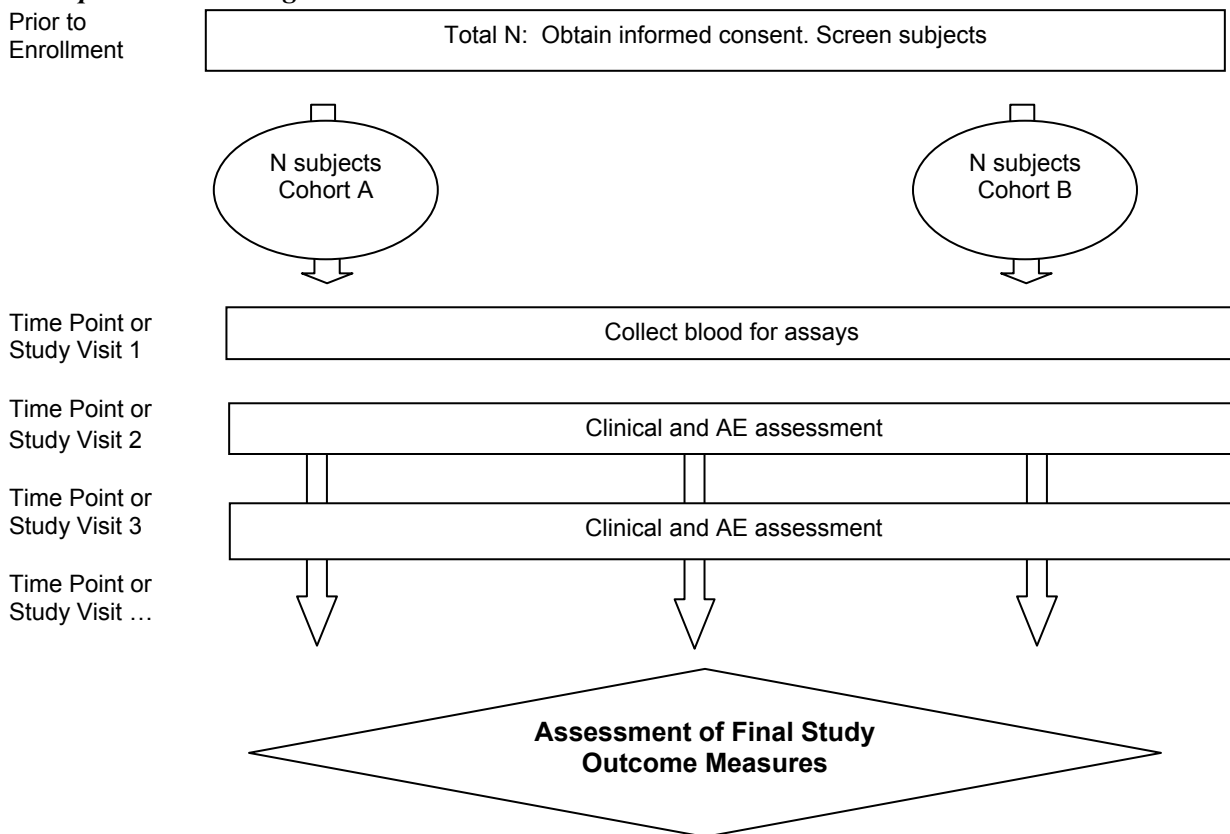
Schematic of Study Design

Schematic of study design is a diagram that provides a quick “snapshot” of the study. Below are examples of schematics. Select one of the sample styles below and create a schematic that is appropriate for the protocol.

Example #1: Table format:

Cohort A	Subject	Sample Size
Cohort B	Relatives	Sample Size

Example #2: Flow diagram:



1 Key Roles

(Sample Language)

For questions regarding this protocol, contact [name of appropriate NIAID staff]
Branch/Division/NIAID [contact information].

A. Required Elements:

Institutions:

Study sites, Clinical laboratory (ies) and other medical or technical departments and/or institutions.

Provide the following information for each organization or institution:

*Institution
Address
Contact Person
Phone Number
Fax Number
E-mail address*

Investigators:

Principal Investigator (responsible for conducting the study), Medical Advisory Investigator (qualified physician who is responsible for all study-site related medical decisions), Adjunct Principal Investigator, Lead Associate Investigator, Associate Investigators, Offsite Principal Investigators

Provide the following information for each individual:

*Name, degree, title
Institution
Address
Phone Number
Fax Number
E-mail*

B. Optional Elements: *(consider listing, for example):*

*Major International Collaborators, (if not included as site principal investigators)
Protocol Statistician(s)*

Other study staff should be listed in a separate document (e.g., the Manual of Procedures) as a contact list.

2 Background Information and Scientific Rationale

Write the background in a manner that can be used in the resultant manuscript, include:

- *Applicable clinical, epidemiological or public health background or context of the disease under study. Include a brief description of where the research is to be conducted and the relevant demographic and epidemiological information about the country or region concerned, if applicable.*
- *Importance of the study and any relevant treatment issues or controversies.*
- *A discussion of important literature and data that are relevant to the study and that provide background for the study.*
- *A focus on new information to explain the study in the context of a rapidly changing field.*

2.1 Background Information

2.1.1 Summary of Relevant Studies

2.1.2 Summary of Epidemiological Data

2.2 Rationale

Include a statement of the hypothesis or study objectives and briefly summarize the natural history of the disorder being studied. Include a description of and justification for the study and its design, including selection of study population.

2.3 Potential Risks and Benefits

Include a discussion of known and potential risks and benefits, if any, to human subjects.

2.3.1 Potential Risks

Describe in detail any physical, psychological, social, legal, and economic or any other risks to subjects that are immediate risks and long-range risks. For example: long-range risks such as psychological concerns, pain or anxiety or practical concerns such as loss of income or mobility.

Discuss rationale for the necessity of procedures or treatments that involve risks, alternative data gathering procedures that have been considered or will be considered, why alternative procedures may not be feasible and why the value of the information to be gained may outweigh the risks involved.

2.3.2 Potential Benefits

3 Study Objectives

*A detailed description of the **primary, secondary, exploratory and substudy** objectives of the study is included in this section. These typically include:*

- *Statement of purpose: e.g., to assess, to determine, to compare, to evaluate, to define*
- *General purpose*
- *Specific purpose*
- *Method of assessing how the objective is met, i.e., the study outcome measures*

3.1 Primary Objective

The primary objective must match the one used in the [Statistical Considerations, Section 11](#). These objectives determine study design and sample size and there should be adequate power or precision of estimates to achieve an answer. When power is not relevant to a particular study design, precision of estimates should be. For example, if the purpose of the study is purely descriptive, there won't necessarily be any hypotheses to test, but there should be a goal to obtain an estimate of some quantity or quantities with some level of precision. Precision of estimates can be used to determine the sample size that will allow the study to meet the stated objective.

3.2 Secondary Objectives

May or may not be hypothesis-driven and may include more general, non-experimental objectives (e.g.: To develop a registry). Secondary objectives require an analysis plan, but the size of the trial is not based on a predicted statistical power to achieve the objectives. Secondary objectives should not overshadow or impede the primary objective and impact on implementation should be taken into consideration.

3.3 Exploratory Objectives (if applicable)

These objectives represent questions of interest, but it is not known a priori whether the study will be designed or sized in a way to achieve an answer.

(If not applicable, delete and update the Table of Contents)

3.4 Substudy Objectives (if applicable)

(If not applicable, delete and update the Table of Contents)

4 Study Design

4.1 Description of the Study Design

A description of the study design should be consistent with the [Protocol Summary](#) and include:

- *A description of the type/design of study to be conducted (e.g. observational, epidemiologic, longitudinal, parallel design, cross-over, screening, treatment, etc...)*
- *Single or multi-center*
- *The number of study groups*
- *Healthy and/or sick population, relatives*
- *In-patient or out-patient*
- *Description of study groups including sample size (include a table, if appropriate)*
- *Approximate time to complete study enrollment*
- *The expected duration of subject participation*
- *A description of the sequence and duration of all study periods, including follow-up (specify individual participants vs. entire study)*
- *List of procedures (s), (if applicable)*
- *Any stratifications*
- *Methods for collecting data for assessment of study objectives*
- *A specific statement of the primary and secondary outcomes to be measured during the trial (must be consistent with Study Objectives, as stated in Section 3)*
- *Other protocol-specific details, such as centralization of evaluations (e.g., central laboratory or central reading center for clinical scans)*

4.2 Study Endpoints

4.2.1 Primary Endpoint

The primary measurement and endpoint used to determine primary objective should be clearly specified. Although the critical measurements may seem obvious, when there are multiple variables or when variables are measured repeatedly, the protocol should be linked to achieving the primary objective in the statistical plan with an explanation of why they were chosen or designate the pattern of significant findings or other method of combining information that would be interpreted as supporting the objective.

4.2.2 Secondary Endpoints

4.2.3 Exploratory Endpoints *(if applicable)*

(If not applicable, delete and update the Table of Contents)

4.2.4 Substudy Endpoints *(if applicable)*

(If not applicable, delete and update the Table of Contents)

5 Study Population

The study population and inclusion/exclusion criteria should be clearly defined in this section of the protocol. The inclusion and exclusion criteria should provide a definition of participant characteristics required for study entry. Careful consideration should be given to the need to achieve that delicate balance of the specificity of criteria, while allowing room for investigator judgment with the overall goal of not inadvertently excluding someone who is a good candidate or allowing enrollment of someone who is not a good candidate for the study.

Include a discussion of recruitment and retention strategies as related to achieving NIH gender/minority guidelines.

- *Retention Procedures: Identify strategies for subject retention.*
- *If women, minorities and children will not be recruited, explain why not. Refer to: <http://ohsr.od.nih.gov/info/sheet11.html>.*
- *If the study intends to enroll children, pregnant women, or other vulnerable populations, please see applicable sections of 45 CFR 46:*
 - *[Subpart B](#): Additional DHHS Protections Pertaining to Research, Development and Related Activities Involving Fetuses, Pregnant Women, and Human In Vitro Fertilization,*
 - *[Subpart C](#): Additional DHHS Protections Pertaining to Biomedical and Behavioral Research Involving Prisoners as Subjects*
 - *[Subpart D](#): Additional DHHS Protections in Children Involved as Subjects in Research.*
 - *To ensure proper resources for research involving children less than 2 years old, that will be conducted at the Clinical Center, submit, the “Protocols that anticipate enrolling pediatric patients < 2 years old” checklist, available on the NIAID DCR IRB web portal.*
- *Indicate from where the study population will be drawn (e.g., in-patient hospital setting, out-patient clinics, student health service). Include name of the sites (hospitals, clinics, villages, etc...) that are not study sites, but collection centers. Note that study sites will already be listed in the [Key Roles](#) section at the beginning of the protocol, do not repeat here.*

- *Provide the target/proposed sample size; include estimates for dropouts.*
- *Projected Enrollment and Rationale: Indicate the maximum number of subjects to be enrolled in the protocol. The number should be as precise as possible and supported by appropriate statistics discussed in [Section 11.4](#). This number should include participants screened and enrolled in the protocol.*
- *Accrual Ceiling: Investigators should take into account volunteers who may sign the screening consent, but are not eligible, due to screening failure, or choose not to participate in the protocol. Any adjustments to the accrual ceiling after initial approval by the IRB must be reviewed and approved by the IRB. Note that a participant is considered “accrued” if s/he signs a screening consent document, regardless of enrollment status.*
- *Projected Enrollment per Site, (if applicable): Use “approximately” to avoid any possibility of a protocol deviation. Must be based on actual potential enrollment from information gathered from the site.*
- *Projected Drop-out Rate: Use a projection based on previous study data in same or similar population under same/similar conditions and/or treatment. This will also help with the rationale for the anticipated needed enrollment numbers to achieve the number of evaluable subjects.*

5.1 Participant Inclusion Criteria

Provide a statement that participants must meet all of the inclusion criteria to participate in this study and then list each criterion. The same criterion should not be listed as both an inclusion and exclusion criterion.

- *Clinical indicators of current status (obtained within a set pre-determined number of days prior to enrollment.)*
- *Prior therapy if any. Consider listing specific prior treatments. Consider listing the allowable duration of prior therapy for the specific population to be studied (e.g., treatment-naïve, treatment-experienced or prior-treatment-failed “salvage” subjects).*
- *Demographic characteristics (e.g., gender, minimum and maximum age) as applicable*
- *Requirements for birth control (if applicable)*

Examples include the following: informed consent obtained and signed, age, presence or absence of a medical condition/disease, required laboratory result, understanding of study procedures, ability to comply with study procedures for the entire length of the study, requirements for agreement to avoid conception, etc... If men and women of reproductive capability will be enrolled, include details of allowable contraception methods for study (e.g., licensed hormonal methods).

5.2 Participant Exclusion Criteria

Provide a statement that all participants meeting any of the exclusion criteria at baseline will be excluded from study participation and then list each criterion.

Examples include the following: medical condition or laboratory finding that precludes participation, recent (with time frame) febrile illness that precludes or delays participation, pregnancy or breastfeeding, characteristics of household or close contacts (e.g., household contacts who are immunocompromised), history of drug/alcohol abuse, receipt of prohibited concomitant medications, etc.

- *List specific clinical contraindications. Specify grades of signs/symptoms. Clinical laboratory indicators of current status, obtained within a set pre-determined days prior to enrollment. List the specific tests to be performed and the narrowest acceptable range of laboratory values for exclusion, consistent with safety.*
- *Specify active drug or alcohol use or dependence that, in the opinion of the site investigator, would interfere with adherence to study requirements.*
- *Specify inability or unwillingness of subject or legal guardian/representative to give written informed consent.*
- *Specify any clinical (e.g., life expectancy, co-existing disease), demographic (e.g., age) or other characteristic that precludes appropriate diagnosis, treatment or follow-up in the study.*
- *State reason for age restriction.*

Participation of Women:

- **Contraception:** (if applicable)
(Sample Language)

The effects of [drugs/procedure(s)] on the developing human fetus are unknown. For this reason, women of childbearing potential and male partners must agree to use adequate contraception (hormonal or barrier method of birth control; abstinence) prior to study entry and for the duration of study participation. Females of childbearing-age will have a pregnancy test prior to undergoing study procedures. Should a woman become pregnant or suspects she is pregnant while participating in this study, she should immediately inform study staff and her primary care physician.

Note that the statement that men should use contraception is applicable where both partners are study participants or the procedures or drugs are potentially harmful or teratogenic. Note that treatment studies for rare diseases may involve harmful drugs.

- **Pregnancy:** (if applicable)

(Sample Language)

Pregnant women are excluded from this study during pregnancy, because the effects of [safety reasons related to a specific procedure].

State the study's pregnancy-related policy and rationale. Specify if the woman may enroll or continue post-partum on the study. Specify any exclusion related to pregnancy or plans to become pregnant. Specify methods for assessing current status and willingness

to use contraception, if applicable. Provide justification for exclusion in [Ethics/Protection of Human Subjects](#) section. To learn more about special protections for pregnant women and fetuses refer to [45 CFR 46, Subpart B](#).

Participation of Minorities: *(if applicable) List any special exclusions/guidelines for this special population if different from other populations. Provide justification for Exclusion in [Ethics/Protection of Human Subjects](#) section. If minorities will not be recruited, explain why not or refer to [Section 13](#).*

Participation of Children: *(if applicable)*

(Sample Language)

Participants younger than 18 years of age will be excluded from the study. Because [state rationale], the study is of “greater than minimal risk” and does not meet the criteria of 45 CFR 46, Subpart D, governing the participation of children in research.

List any special exclusions/guidelines for this special population if different from adults. Provide justification for exclusion in [Ethics/Protection of Human Subjects](#) section. If children will not be recruited, explain why not or refer to [Section 13](#).

Co-enrollment Guidelines: *(if applicable)*

(Sample Language)

Co-enrollment in other trials is restricted, [specify types of studies the participant may be co-enrolled in, an observational study for example]. Study staff should question prospective enrollees about co-enrollment as participation in other studies may require the approval of the investigator.

Specify guidelines for co-enrollment. Describe any restrictions or opportunities concerning other studies in which the participant may enroll, while participating in this study. For example, if the participant recently participated in a malaria vaccine trial, they may not be eligible to enroll for a specific time-frame (specify). Note also that total blood volumes for participation in more than one study at a time must be taken into consideration.

6 Study Procedures/Evaluations

Information outlined in the Procedures/Evaluations section should refer to and be consistent with the information in the Schedule of Procedures/Evaluations in [Appendix B](#).

Study Procedures:

- Recruitment Procedures: Identify strategies for subject recruitment. Describe the method for identifying and recruiting candidates for the trial. Data should be presented supporting recruitment estimates. Specific goals for women and minority recruitment and plans for achieving those goals should be provided. Conversely, the rationale for exempting the populations must be provided. If you are working overseas,, specify minority strata as appropriate to meet in-country reporting requirements.*
- Screening Eligibility/Procedures: Discuss the sequence of events that should occur during screening and decision points regarding eligibility. Mention that procedures*

will take place only after the informed consent is signed. Describe procedures for documentation of reasons for ineligibility and for nonparticipation of eligible subjects. List the timeframe prior to enrollment within which screening tests and evaluations must be done (e.g., within 28 days prior to enrollment).

- *Re-Screening....Describe the conditions and procedures for re-screening.*
- *Run-in Procedures: If a Run-in period is required, describe procedures for Run-in, safety methods and evaluation and if Run-in may be repeated. Mention that procedures will take place only after the informed consent is signed*
- *Enrollment Procedures: Discuss the sequence of events that should occur during enrollment including any baseline procedures. Mention that procedures will take place only after the informed consent is signed. If a participant comprehension tool is to be used, describe the tool and method of administration; for example, a Volunteer Understanding Quiz (VUQ) and method of grading.*
- *Study Procedures: Describe in detail study interventions and procedures.*
- *Testing Performed: Clinical (including behavioral), laboratory, and physiological tests and protocols should be described briefly here. More detail can be placed in an appendix.*

6.1 Clinical Evaluations

List all clinical evaluations to be done during the protocol, and provide details/timelines at each visit of what are included and special instructions, if any. Distinguish between standard of care and research procedures and tests.

Examples:

- *Medical History (describe what is included for history, e.g., timeframe considerations, whether history will be obtained by interview or from medical records);*
- *Medications History (e.g., describe if a complete medications history is needed, or if only currently taken medications should be included; prescription medications only or also over-the-counter). Assessment of eligibility should include a review of permitted and prohibited medications;*
- *Physical Exam (list the vital signs and organ systems to be assessed); if appropriate, discuss what constitutes a targeted physical exam and at what visits it will occur. If an Adverse Event occurs, describe if a full physical exam should be done;*
- *Surgical procedures or biopsies;*
- *Radiologic procedures (e.g., chest x-rays, DEXA scans, CT scans).*
- *Counseling procedures;*

6.2 Laboratory Evaluations

6.2.1 Clinical and Research Laboratory Evaluations and Specimen Collection

Laboratory Evaluations

List all protocol laboratory evaluations. Include specific test components and type of specimens needed for each test (e.g., plasma or serum). In order to comply with the NIH Clinical Center policy M95-9 on the amount of blood drawn, list the total amount needed for each test. The amount of blood that may be drawn from those persons 18 years of age or older for research purposes shall not exceed 450 ml over any six week period. The amount of blood to be drawn from volunteers and the frequency of collection shall be specified in the clinical research protocol. For pediatric patients, no more than 3 mL/kg may be drawn for research purposes in a single blood withdrawal, and no more than 7 mL/kg may be drawn over any six-week period.

Examples:

- *Hematology: hemoglobin, hematocrit, WBC with differential, platelet count;*
- *Biochemistry: creatinine, total bilirubin, ALT, AST, glucose (fasting/non-fasting);*
- *Urinalysis: dipstick urinalysis, including protein, hemoglobin and glucose; if dipstick is abnormal, complete urinalysis with microscopic is required;*
- *Pheresis procedures;*
- *Biopsy specimens: tissue*

Special Assays or Procedures

List special assays or procedures required to assess the study objective (e.g., immunology assays, photographs). For laboratory assays, include specific assays, estimated volume and type of specimen needed for each test. For procedures, provide special instructions or precautions. If more than one laboratory will be used, specify which assays or evaluations will be done by each laboratory.

6.2.2 Specimen Preparation, Handling and Shipping

(Sample Language)

Biohazard Containment

Because transmission of HIV and other blood-borne pathogens can occur through contact with contaminated needles, blood, blood products and body secretions; appropriate protective precautions will be employed by all personnel in the drawing of blood, shipping and handling of all specimens for this study, as currently recommended by the Centers for Disease Control and Prevention and the National Institutes of Health.

Specify laboratory methods (e.g., use consistent laboratory methods throughout the study) to provide for appropriate longitudinal and cross-comparison.

6.2.2.1 Instructions for Specimen Storage

Provide details of proper handling of specimens for long-term storage including logging, databases and tracking.

6.2.2.2 Specimen Shipment

Transport of Infectious Agents

(Sample Language)


All specimens will be transported using packaging mandated in the Code of Federal Regulations, [42 CFR Part 72](#) and according to individual carrier guidelines, as applicable.

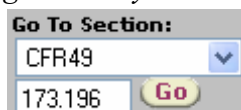
Refer to [Appendix C](#) for full schedule details of specimens and for specimen shipment details including labeling requirements.

Transport of Infectious Agents

All infectious specimens will be transported using packaging mandated in the Code of Federal Regulations, [42 CFR Part 72](#). If the protocol involves any transport of materials that include infectious substances, diagnostic specimens, toxic chemicals, or hazardous materials then prepare a plan for handling these shipments according to current regulations. Principal Investigators are responsible for knowing about and observing (and ensuring protocol collaborators also comply with) all the regulations for classification, packaging and labeling, permits or authorizations, and personnel training for shipment of biological and hazardous materials required for the conduct of the protocol. Failure to comply with federal and international regulations on shipment of biological or hazardous materials can result in refusal of the carrier to complete the shipment, fines, and/or jail.

The following websites should be consulted for shipping regulations that may apply to the protocol:

- Department of Transportation, [Guide to Changes \(Effective October 1, 2006\), "Transporting Infectious Substances Safely"](#).
- Department of Transportation. 49CFR171-180. Hazardous Materials Definitions: <http://www.myregs.com/dotRSPA/>. On the USDOT page, click on DOT Interpretations. 
- Hazardous Materials Regulations: <http://www.myregs.com/dotRSPA/>. On the USDOT page, enter the section of the regulations you would like to see for example "Infectious Agents" so you would enter, "173.196".



Go To Section:
CFR49
173.196 Go

- *Public Health Service 42CFR72. Interstate Shipment of Etiologic Agents. 42CFR Part 72. Federal Register, Vol. 45, No. 141-Monday, July 21, 1980. <http://wonder.cdc.gov/wonder/prevguid/p0000087/p0000087.asp>*
- *Dangerous Goods Regulations. International Air Transport Association (IATA). <http://www.iata.org> and <http://www.iata.org/NR/rdonlyres/88834D9F-8EA2-42A0-8DA6-2BED8CD2E744/0/SAMPLEISSG7THED.pdf>*
- *Guidelines for the Safe Transport of Infectious Substances and Diagnostic Specimens. World Health Organization, 1997. http://www.who.int/csr/emc97_3.pdf*
- *United States Postal Service. DMM 300.601 Mailability, Section 10.17 <http://pe.usps.gov/text/dmm300/601.htm#wp1064962>*
- *Occupational Health and Safety Administration (OSHA). 29CFR1910.1030. Occupational Exposure to Blood borne Pathogens. <http://www.osha.gov/SLTC/bloodbornepathogens/>*

6.3 Substudies

Definition: A substudy asks a separate research question from the primary protocol hypothesis and does not overlap with the protocol's objectives, but uses all or a subset of study participants or specimens.

A concept sheet for a proposed substudy should be approved prior to development of a full protocol for the substudy. Once the concept for a substudy is approved, a decision will be made as to whether the concept is appropriate as a substudy or should be a stand-alone study. If a substudy is added to an ongoing parent study at a later time, a protocol amendment is required.

List with brief description:

- *Description of the substudy and its objectives*
- *Impact on the main study*

7 Research Use of Stored Human Samples, Specimens or Data

(If applicable)

Research often involves the use of stored human specimens or data. Such use obligates research investigators and Institutional Review Boards to consider the rights and welfare of the individuals who provide them, especially when samples retain identifiers or codes. The research use of existing specimens without the ability or intent to identify the source may pose little risk to the donors. However, when these sources can be identified, conflicts may arise between their rights and the scientific benefit that can be obtained from studying their stored samples. For more guidance on Stored Samples refer to [OHSR Information Sheets/Forms - Sheet 14 PROCUREMENT AND USE OF HUMAN BIOLOGICAL MATERIALS FOR RESEARCH](#).

NIH IRB-approved research protocols in which Intramural Research Program (IRP) researchers intend to collect and store human specimens or data: New protocols should include this information at the time of initial review. All such protocols must include:

- *Nature of the proposed research;*
- *Intended use of the samples;*
- *How they will be stored;*
 - *If coded or unlinked*
 - *If coded a justification for maintaining the code*
 - *Who can link the code to the source*
 - *How confidentiality will be maintained*
- *How they will be tracked;*
- *What circumstances would prompt the PI to report to the IRB loss or destruction of samples;*
- *What will happen to the samples/specimens/data at the completion of the protocol.*

7.1 Use of Stored Samples/Data

(Sample Language)

Samples and data collected under this protocol may be used to study [XX]. [No] genetic testing will be performed. *(If applicable)* Samples and data collected under this protocol may be used to study [XX]. [No] genetic testing will be performed.

This section is to comply with the June 12, 2006 Gottesman memo from Dr. Gottesman regarding the Disposition and Use of Stored Specimens and Data. Read the Memo (go to the NIAID DCR IRB website/Initial Submission Forms/Forms relevant to both submissions/Research use of Stored Human Samples...) and OHSR's [Information Sheet 14](#) for clarification of this policy. The sample language in this protocol has been recommended by the NIAID IRB to address various points of compliance. Provide a description of the intended use of the samples, include details such as:

- *Whether they are intended only for study-related usage or if they will be made available for future research.*
- *If intended for future research, specify whether the usage is related to the disease of interest or for any research purpose.*
- *If applicable specify whether and how samples will be provided to a collaborator. If collaboration will take place specify that the appropriate [waiver will be obtained](#) for anonymized samples from OHSR, or that the appropriate agreement will be reached through the [Office of Technology Development](#) for identified or linked samples.*

7.2 Disposition of Stored Samples/Data

(Sample Language)

Access to stored samples will be limited using [either a locked room or a locked freezer]. Samples and data will be stored using codes assigned by the

investigators. Data will be kept in password-protected computers. Only investigators will have access to the samples and data.

How they will be stored, if mentioned, refer to [Section 6.2.2.1](#).

- *Whether the samples will be identified or de-identified and coded.*
- *If coded, a justification for retention of the identities or codes of the sources of sample data.*
 - *When codes will be utilized, a description of the ease or difficulty with which linkage can be made between the code and the source.*
- *A description of the extent to which confidentiality will be maintained.*

(Sample Language)

Samples and data acquired after [date] will be tracked [*describe method of tracking, such as the name of the software tracking program or other logging/tracking method*].

- *How they will be tracked, if mentioned, refer to [Section 6.2.2.1](#).*
- *Provide a description of who can make the linkage between the code and the source.*

(Sample Language)

In the future, other investigators (both at NIH and outside) may wish to study these samples and/or data. In that case, IRB approval must be sought prior to any sharing of samples or data. Any clinical information shared about the sample would similarly require prior IRB approval.

In addition to obtaining IRB approval, prior to collaborating with non-study investigators/collaborators, the investigator should check with the NIAID Office of Technology Development to ensure that all proper agreements are in place.

At the completion of the protocol (termination), samples and data will either be destroyed, or after IRB approval, transferred to another existing protocol.

Describe the disposition of the specimens/samples/data at the completion of the protocol, e.g. it will remain open, they will be sent to a repository, etc... as applicable.

(Sample Language)

Any loss or unanticipated destruction of samples or data that meets the NIH Intramural Protocol Violation definition or results in a violation that compromises the scientific integrity of the data collected for the study; will be reported to the NIAID IRB.

(If applicable)

Additionally, subjects may decide at any point not to have their samples stored. In this case, the principal investigator will destroy all known remaining samples and report what was done to both the subject and to the IRB. This decision will not affect the subject's participation in this protocol or any other protocols at NIH.

What circumstances would prompt the PI to report to the IRB loss or destruction of samples. For example what is the percentage of specimens lost that could threaten the integrity of the study outcome. What is the impact if a freezer should go down and samples are lost; or if samples are unusable due to a misunderstanding of procedures are samples lost or is it safe to redraw and how does that impact the burden on the affected participants? To learn more about what constitutes a protocol violation go to the NIAID DCR IRB portal/IRB Submission Forms/Violations, additional guidance may be found about protocol deviations the NIAID DCR IRB portal/Clinical Research Guidance/Advisories/Reporting of Protocol Deviations.

8 Study Schedule

Information outlined in the Study Schedule section should refer to and be consistent with the information in the Schedule of Procedures/Evaluations in [Appendix B](#).

Allowable windows should be stated for all visits. *To determine the appropriate windows, consider feasibility and relevance of the time point to study outcome measures.*

The schedule must include not only clinic visits but all other types of contacts, e.g., telephone contacts, scheduled notification letters.

8.1 Screening

(Sample Language)

The purpose of the screening visit is to determine volunteer eligibility for study participation. Volunteers, who are diagnosed with a medical condition during the screening process, (e.g., test positive for hepatitis B, hepatitis C, HIV) will be notified and referred for medical care. The following screening evaluation must be completed in the [XX] days prior to enrollment.

Include only those evaluations necessary to assess whether a participant meets enrollment criteria. Discuss the sequence of events that should occur during screening and the decision points regarding eligibility. List the timeframe prior to enrollment within which screening tests and evaluations must be done (e.g., within 28 days prior to enrollment). Refer to Section 7 Study Procedures/Evaluations for details of clinical evaluations and laboratory evaluations for screening

This section should specify that informed consent must be obtained prior to initiating screening procedures. Refer to [Section 13.4](#)

8.2 Enrollment/Baseline

(Sample Language)

Day 0 is defined as the day of enrollment and initiation of the study procedures. Study participants must sign study participation consent form to be considered enrolled into the study.

Discuss evaluations/procedures necessary to assess or confirm whether a participant still meets the eligibility criteria and may be enrolled, and those assessments that are required at baseline for later outcome measure comparison after study procedures. Discuss the sequence of events that should occur during enrollment.

8.3 Active Phase

Indicate schedule of evaluations occurring while the subject is on-study. Include allowable time window in which evaluations may take place; e.g., study visits must be scheduled on the weeks indicated in the Schedule of Evaluations \pm 7 days. Discuss the activities that will take place immediately before and after each study procedure (e.g. liver biopsy, apheresis, etc...). Discuss how subjects who report a recent or intercurrent illness will be handled (e.g., cold, fever, infection, etc.)

8.4 Follow-up

Include discussion of evaluations/procedures required to assess or confirm study outcome measures and study evaluations. Discuss the sequence of events that should occur during the visit, if applicable. Include, as applicable, counseling, review of medications, assessment of adverse events, etc.

8.5 Final Study Visit

Define when the final study visit should occur and any special procedures/evaluations or instructions to the participant. Describe provisions for follow-up of ongoing adverse events/serious adverse events.

Note that it is recommended that a study has a defined time period and that from the perspective of analysis, studies that are open-ended are undesirable, for example, losses over time make the data hard to interpret. If the study does not have a defined period, explain in [Section 4, Study Design](#) why the study would remain open-ended, for example, the study does not have an endpoint because it is a training study.

8.6 Early Termination Visit

Specify which of the evaluations required for the final study visit should be done at a termination visit if early termination occurs and if the participant is willing. State that participants may withdraw voluntarily from participation (including data and samples) in the study at any time. Participants may also withdraw voluntarily from participating in study procedures for any reason. Clearly differentiate between what evaluations are to be done in each of these circumstances.

If voluntary withdrawal occurs, the participant should be asked to continue scheduled evaluations, complete an end-of-study evaluation, and be given appropriate care under medical supervision until the symptoms of any adverse event resolve or the participant's condition becomes stable (do this under [Section 9.6](#)) Describe efforts to continue follow-up, especially for safety outcome measures.

8.7 Recontact of Subjects after Study Termination

Discuss whether the protocol requires that subjects be contacted post-study to gather additional information or to possibly re-enroll in another phase of the study. Include the post-study timeframe for recontact (e.g., 5 years following study completion), why the subject would be recontacted, what types of information would be requested and who would be doing the recontacting. Discuss procedures for recontact attempts (e.g., update the last-known address, phone number, etc.).

9 Assessment of Safety

9.1 Definition of an Adverse Event (AE)

(Sample Language)

An adverse event (AE) is any unanticipated or unintended medical occurrence or worsening of a sign or symptom (including an abnormal laboratory finding) or disease in a study participant, which does not necessarily have a causal relationship with the study condition, procedures or study agent(s), that occurs after the informed consent is obtained.

Pre-existing conditions or illnesses which are expected to exacerbate or worsen are not considered adverse events and will be accounted for in the subject's medical history

Provide a definition, specific to this protocol, of the expected vs. unexpected AEs, based on the risk profile of the study procedures and/or disease process.

Note that adverse events should be tracked starting with the initial consent through the end of study follow-up.

9.2 Definition of a Serious Adverse Event (SAE)

(Sample Language)

A Serious Adverse Event (SAE) is defined as an AE resulting one of the following outcomes:

- Death during the period of protocol-defined surveillance
- Life Threatening Event (defined as an event that places a participant at immediate risk of death)
- Inpatient hospitalization or prolongation of existing hospitalization during the period of protocol-defined surveillance
- Congenital anomaly or birth defect
- Persistent or significant disability/incapacity

Any other condition which, in the judgment of the investigator, represents a significant hazard, such as an important medical event that does not result in one of the above outcomes, may be considered a serious adverse event when the

event jeopardizes the participant or requires medical or surgical intervention to prevent one of the outcomes listed above.

Consider the context of the study and adjust reporting procedures appropriately for the study population and procedure(s) being performed. Define the circumstances (for instance, severity grades >2) in which abnormal laboratory values will be reported as AEs/SAEs. Generally, in healthy people, a grade 3 or above abnormality is an SAE. In sick populations, define in terms of a change from baseline and disease progression.

9.3 Methods and Timing for Assessing, Recording, Analyzing and Managing Adverse Events

This section should be based on the risk profile of the procedure(s). Include a review of relevant literature, which should be referenced. Add relevant links to websites, etc. from which the information could be drawn.

If medication will be provided and the package insert is available, it should be used as a source of risk information. In addition, literature searches can also provide relevant risk information.

9.3.1 Methods and Timing for Assessment

Describe the means of obtaining adverse event data. Describe which adverse events will be collected as solicited events and the format used to capture the solicited event (checklist, structured questioning, diary, etc), and any specific rating scale if one is to be used. Describe how unsolicited events will be captured. Describe the time period for adverse event collection, (e.g. Events that occur within 48 hours of a blood draw).

9.3.1.1 AE/SAE Grading and Relationship Assignment

Intensity (severity) Scale

(Sample Language)

Each adverse event, all other laboratory and clinical AEs that occur in a participant will be assessed for severity and classified into one the categories below:

- **Grade 1 (Mild):** Event requires minimal or no treatment and does not interfere with the participant's daily activities.
- **Grade 2 (Moderate):** Event results in a low level of inconvenience or concern with the therapeutic measures. Moderate events may cause some interference with functioning.
- **Grade 3 (Severe):** Event interrupts a subject's usual daily activity or functioning and may require systemic drug therapy or other treatment. Severe events are usually incapacitating.
- **Grade 4 (Life threatening):** Any adverse drug experience that places the participant, in the view of the investigator, at immediate risk of death from the event as it occurred.

- **Grade 5 (Death)**

Assessment should include the intensity (severity) of the event whether clinical or laboratory and the relationship to Study procedure(s). (Collection of laboratory data should be limited to those laboratory parameters that are relevant to safety, study outcome measures and/or clinical outcome.)

Intensity will be assigned using a protocol defined grading system. The grading system will define what values or clinical findings are considered abnormal. Reference tables for laboratory/clinical events [APPENDIX B](#) & [APPENDIX C](#).

For events not included in the protocol defined grading system, include guidelines here for assessment.

Changes in the severity of an AE should be documented to allow an assessment of the duration of the event at each level of intensity to be performed. Adverse events characterized as intermittent require documentation of the onset and duration of each episode.

Relationship Assessment

(Sample Language)

All AEs or SAEs will be assessed for relationship to the study research procedures. A causal relationship means that the study participation caused (or is reasonably likely to have caused) the event. This usually implies an association in time between a study procedure and the event (e.g., the AE occurred shortly after the study participant had a blood draw). *[If applicable, for blood draw protocols]*

(Required Language)

For all collected AEs, the investigator who examines and evaluates the subject will determine the adverse event's causality based on temporal relationship and his/her clinical judgment. The degree of certainty about causality will be graded using the categories below.

- **Definitely Related:** There is clear evidence to suggest a causal relationship, and other possible contributing factors can be ruled out. The clinical event, including an abnormal laboratory test result, occurs within a reasonable timeframe after study procedure(s) and cannot be explained by concurrent disease or other drugs or chemicals.
- **Probably Related:** There is evidence to suggest a causal relationship, and the influence of other factors is unlikely. The clinical event, including an abnormal laboratory test result, occurs within a reasonable time after study procedure(s), is unlikely to be attributed to concurrent disease or other drugs or chemicals, and follows a clinically reasonable response to study events.
- **Possibly Related:** There is some evidence to suggest a causal relationship (e.g., the event occurred within a reasonable time after study procedure(s)). However, the influence of other factors may have contributed to the event

(e.g., the subject's clinical condition, other concomitant events). Although an adverse event may be judged only as "possibly related" soon after discovery, it can be flagged as requiring more information and later be upgraded to "probably related" or "definitely related", as appropriate.

- **Unlikely:** A clinical event, including an abnormal laboratory test result, whose temporal relationship to study procedure(s) makes a causal relationship improbable (e.g., the event did not occur within a reasonable time after study procedure(s)) and in which other drugs or chemicals or underlying disease provides plausible explanations (e.g., the subject's clinical condition, other concomitant treatments).
- **Unrelated:** The AE is completely independent of study procedure(s), and/or evidence exists that the event is definitely related to another cause. There must be an alternative, definitive cause documented by the clinician.
- **Expected Events Related to Disease Process:** Expectedness refers to the awareness of adverse events previously observed, not on the basis of what might be anticipated from the study procedure(s).

Provide explicit definitions of the type(s), grade(s), and duration(s) of adverse event(s) that will be considered disease related.

Relationship Assessment of AEs/SAEs to the study procedure(s) should be made by the principal investigator. (NOTE: Relationship assessment is not a factor in determining what is or is not reported in the study.) Changes in the assessment of relationship to the study procedure(s) should also be clearly documented.

9.3.2 Recording/Documentation

(Sample Language)

At each contact with the subject, information regarding adverse events will be elicited by appropriate questioning and examinations and will be immediately recorded on a source document. Source documents will include: progress notes, laboratory reports, consult notes, phone call summaries, survey tools and data collection tools. Source documents will be reviewed in a timely manner by the research team. All reportable adverse events that are identified will be recorded on an appropriate [case report form (CRF)/CRIMSON]. The start date, the stop date, the severity of each reportable event, and the Investigator's judgment of the AEs relationship to the [procedure/intervention] will also be recorded [on the CRF/in CRIMSON].

The documentation system for the protocol (CRFs, electronic data capture systems, CRIMSON, etc...) should be clearly described in this section.

Complete description of all adverse events must be available in the source documents. All Adverse Events including local and systemic reactions not meeting the criteria for "serious adverse events" should be captured on the appropriate case report form or electronic data system. Information to be recorded, based on above assessment criteria, includes event description, time of onset, investigator assessment of severity, relationship to Study Agent(s)/Intervention(s), and time of resolution/stabilization of the event. All

adverse events occurring while on study must be documented appropriately regardless of relationship. Define a timeframe for CRF completion and entry of the adverse event information into the database, as applicable.

Any pre-existing medical condition that is present prior to the time that the patient signs initial consent should be considered as baseline and not recorded as an AE. However, if the medical condition deteriorates at any time during the study, it should be recorded and reported as an AE.

9.3.3 Analysis/Management

Describe the provisions for ensuring necessary medical or professional intervention for adverse events of the research. Include the plan to follow all adverse events to adequate resolution. Include plans and procedures, and the persons responsible, for communicating to subjects information arising from the study (on harm or benefit, for example), or from other research on the same topic that could affect subjects' willingness to continue in the study.

9.4 Reporting Procedures

(Sample Language)

Stable chronic conditions which are present prior to study entry, and do not worsen, are not considered adverse events and will be accounted for in the subject's medical history.

Or

Since participants on this study have [illness/condition] and are likely to be ill at baseline, many will have adverse events by the above criteria. Medical management for [illness/condition] and its complications, will be standard of care and not part of the research process. The research process is related to [blood drawing/ or describe procedure and its intent here]. Therefore, we intend to report as adverse events only those due to research-related activities. Adverse events related to treatment or the underlying disease will be reported in aggregate at time of the annual review. However, all serious adverse events will be reported as described below. [If applicable]

(Required Language)

Adverse event reporting requirements to the NIAID Institutional Review Board (IRB) for this protocol are as follows:

- Investigators will submit a completed serious adverse event report to the NIAID IRB within 7 days after becoming aware of a subject death, a potentially life-threatening (grade 4) serious adverse event that is possibly, probably or definitely related to study procedure(s), an urgent inpatient hospitalization or transfer to the ICU.
- Investigators will submit a completed serious adverse event report to the NIAID IRB within 15 days after becoming aware of any Grade 3 (severe)

adverse event that is possibly, probably or definitely related to study procedure(s), or an inpatient hospitalization (other than elective), a persistent or significant disability/incapacity, or a congenital anomaly/birth defect.

- Investigators will report within 15 days on any other event or condition regardless of grade, which in their judgment represents an event reportable to the IRB.
- Investigators will forward all safety reports and related communications to the IRB within 15 days of receipt.
- A summary of all adverse events will be reported to the NIAID IRB with a continuing review submission.

All subjects will be instructed to alert the study clinician if any adverse event occurs within 48-hours after the blood draw. Any AEs that occur within 48-hours of and are related to the blood draw will be recorded in the participant's clinic file and captured on the AE CRF and reported in aggregate at time of annual review. Any SAEs that occur within 48-hours of and are related to the blood draw will be reported according to the requirements below. *[If applicable]*

All research studies must have an AE/SAE reporting system in place.

Include details of the protocol-specific reporting procedures, the responsible individuals (e.g., the Investigator, the Medical Monitor, etc.), which case report forms should be completed, how and to whom (IRB, sponsor, DSMB etc) reports will be distributed, and what follow-up is required. The specified time frames for reporting events should be in accordance with applicable regulations, NIAID requirements, any additional institutional requirements and in some cases, specific protocol requirements due to the unique nature of the study.

Include specific details of reporting procedures for:

- *Adverse Events (AEs)*
- *Serious Adverse Events (SAEs) Grade 1-3*
- *Serious Adverse Events (SAEs): Grade 4 or higher*
- *Specify events that require reporting in an expedited time frame (e.g., abnormal laboratory values [Grade 3 or 4], HIV infection, pregnancy) to IND sponsor or other required entities.*
- *Social harms should they be likely to occur in the study on the basis of the study population, intervention, or as a result of the study participation.*

9.4.1 Specific Serious Adverse Event Requirements

All serious adverse events will be:

- *Recorded on the appropriate serious adverse event case report form*
- *Reviewed by a study physician*
- *Followed through resolution by a study physician*

NIAID IRB Reporting Requirements

*Any AE that meets the protocol-specific serious adverse event reporting criteria must be submitted to the NIAID IRB. The following is the **MINIMAL** standard for reporting to the IRB (make specific modifications based on the nature of the individual protocol). The study clinician will complete a Serious Adverse Event Form (this form may be found on the NIAID DCR IRB portal/IRB Submission Forms/Serious Adverse Events), within the following timelines:*

1. *All deaths: written notification to the IRB within 7 days*
2. *Serious AND unexpected adverse events (this includes all urgent hospitalizations/transfers to ICU):*
 - a. *life-threatening-written notification to the IRB within 7 days*
 - b. *non life-threatening- written notification to the IRB within 15 days*
3. *All other serious adverse events: at the time of the annual review*

9.5 Type and Duration of the Follow-up of Participants after Adverse Events

Monitoring of Subjects

(Sample Language)

At each contact with the participant, the investigator must seek information on adverse events by specific questioning and, as appropriate, by examination. AEs may be observed by the Investigator and/or study staff, elicited from the participant and/or family member, reported on diary cards [*if applicable*], or volunteered by the study participant. Adverse events that had previously been reported by a study participant will also be reassessed for duration, intensity and possible reoccurrence. Assessment of safety will include clinical observation and monitoring of hematological, chemical, and immunologic parameters [*modify as appropriate*].

Address the frequency at which the subjects' disease/condition will be monitored in this research study and compare to the frequency of monitoring associated with standard care for this disease/condition.

(Sample Language)

Any AE that occurs between the times a study participant signs the informed consent form and the time s/he departs the study at the end of the final follow-up visit (or at the time of early discontinuation of the participant from the study for any reason) will be captured and recorded.

Note that the participant will continue to be followed with the participant's permission, if study procedure(s) is discontinued. Discuss resulting modifications to the schedule and duration of continued follow-up.

Follow-up of participants after Adverse Events

(Sample Language)

All SAEs and non-serious AEs reported in this study will be followed until resolution or [until the investigator and the clinical monitor are in agreement that] the AE/SAE has stabilized and no more follow-up is required. This requirement indicates that follow-up may be required for some events after the participant discontinues participation from the study. These events will be reported to the IRB annually.

(Additional Sample Language as appropriate)

Primary care of the participant's initial medical condition will continue to be under the auspices of his/her local medical provider. A letter describing the study will be sent to the participant's medical provider. The local medical provider will be instructed verbally and with written guidelines to contact the NIH investigators immediately to report any adverse event. A toll-free number will be available to provide 24-hour access to the Principal Investigator (PI) or designee. The participant's primary medical provider will be encouraged to call the PI should any change in condition be noted as compared to the participant's baseline status. Should the occasion arise, participants may also be treated at the NIH Clinical Center.

Describe how adverse events will be followed until resolved or considered stable. Specify procedures for reporting and follow-up of AEs that are consistent with the Schedule of Procedures/Evaluations. Include duration of follow-up period after the appearance of AEs (e.g., one week, two months). Include the plan to follow all adverse events to adequate resolution. Include plans and procedures, and the persons responsible, for communicating to subjects information arising from the study (on harm or benefit, for example), or from other research on the same topic that could affect subjects' willingness to continue in the study.

9.6 Premature Withdrawal of a Participant

Describe the follow-up for subjects prematurely withdrawn from study; include the type and timing of the data to be collected for withdrawn subjects. The protocol should clearly state that voluntary withdrawal is always an option.

Criteria for Discontinuation or Withdrawal of a Subject: Define stop points and criteria for withdrawing subjects (i.e., "off-study criteria") from the study. If a participant

develops an additional condition such as pregnancy, needs surgery, or needs to be hospitalized, the protocol may require withdrawal from a particular study, although not necessarily from others. In studies done with therapeutic intent, the protocol should clarify what the off-study criteria are for "deterioration" or "inadequate control." The wording of this section should clarify the difference between discontinuation of the study procedure(s) and discontinuation of the study (follow-up completed). The protocol should clearly state that voluntary withdrawal by the participant from the protocol is always an option, and the Principal Investigator may end participation of a subject based on clinical judgment.

9.7 Replacement of a Participant Who Discontinues Study Participation

Describe whether and how subjects are to be replaced.

10 Clinical Monitoring Structure

This section will describe the study monitoring to be conducted to ensure the safety and conduct of the study complies with 45 CFR 46, NIAID and other sponsor/ collaborator's guidelines, as appropriate.

10.1 Site Monitoring Plan

Site monitoring for safety is conducted to ensure the human subject protection, study procedures, laboratory, study procedure(s), and data collection processes are of high quality and meet sponsor and regulatory guidelines. This section will describe who will conduct the monitoring, at what frequency monitoring will be done, and what level of detail monitoring will be conducted. Refer to the policy set by the NIAID Clinical Director, NIAID Intramural Protocol Monitoring Memo (located on the RCHSPB portal/Clinical Trials Management (CTM)/Protocol Monitoring/Protocol Monitoring Memo). If the study is monitored by RCHSPB, state that monitoring will be conducted according to the "NIAID Intramural Clinical Monitoring Guidelines", (located on the RCHSPB portal/Clinical Trials Management (CTM)/Protocol Monitoring/NIAID Intramural Clinical Protocol Monitoring Guidelines).

At this time, the following types of NIAID Intramural Program protocols will be monitored by RCHSPB or another independent monitoring group:

- *International protocols funded by NIAID or with a NIAID PI, listed as the Principal Investigator;*
- *Protocols enrolling pediatric subjects or other vulnerable populations;*
- *Special requests from the Clinical Director;*
- *At the request of the Principal Investigator.*

10.2 Safety Monitoring Plan

The NIAID scientific review committee and the investigators will jointly decide on a safety monitoring plan for each study. When potential risk to participants is more than minimal, NIAID strongly recommends independent safety monitoring for research studies. NIH policy requires each IC to oversee and monitor research studies; some monitoring requirements may vary by NIAID division. Per the April 27, 2001 Memo from the Clinical Director (to see the memo go to [RCHSPB portal/Clinical Trials Management \(CTM\)/Protocol Version Control/Memo from Dr. Lane](#)), all NIAID intramural protocols should contain a safety monitoring plan.

10.2.1 Safety Review Plan by the DSMB / SMC, (if applicable) (Sample Language, if applicable)

The NIAID Intramural DSMB will review the IRB approved protocol, informed consent documents, the data and safety monitoring plan and any stopping guidelines prior to study initiation, unless otherwise waived by the NIAID Clinical Director. During the course of the study, the DSMB will review cumulative study data twice per year [*Edit as appropriate per protocol- e.g., as related to the level of risk*] to evaluate safety, efficacy, study conduct, and scientific validity and integrity of the trial. As part of this responsibility, DSMB members must be satisfied that the timeliness, completeness, and accuracy of the data submitted to them for review are sufficient for evaluation of the safety and welfare of study subjects. The DSMB may also convene as needed if stopping criteria are met or other safety issues arise that the Principal Investigator and/or NIAID Clinical Director or designee would like the DSMB to address.

The Principal Investigator will submit the written DSMB recommendations to the IRB upon receipt.

Although natural history studies do not typically require a DSMB, there are situations where one may be requested by the Clinical Director, PI or IC. Provide the method and frequency of the safety review plan, only if applicable. If not applicable, remove this subsection.

See below for the function of SMC/DSMBs:

- ***Safety/ Study Monitoring Committee (SMC):*** *is an independent group of experts that advises the study investigators for Phase I and some Phase II trials. The primary responsibility of the SMC is to monitor participant safety. The SMC considers study-specific data as well as relevant background information about the disease, test agent, and target population under study. To learn more about the role and function of SMCs read, <http://www.niaid.nih.gov/dmid/clinresearch/smc.htm>.*
- ***Data and Safety Monitoring Board (DSMB):*** *is an independent group of experts that advises the study investigators. The primary responsibilities of the DSMB are to 1) periodically review and evaluate the accumulated study data for participant safety, study conduct and progress, and, when appropriate, efficacy, and 2) make*

recommendations concerning the continuation, modification, or termination of the trial. The DSMB considers study-specific data as well as relevant background knowledge about the disease, procedures, or patient population under study. To learn more about the role and function of DSMBs read, the NIAID DSMB Policy and SOP, both of which are located on the NIAID DCR IRB portal/Clinical Research Guidance/Guidance for Investigators and the DSMB Guide for Investigators located on the RCHSPB portal/Data Safety and Monitoring Board (DSMB)/Attachments/DSMB Guide for Investigators.

For example, a DSMB may be convened if a study meets one or more of the following criteria:

- Protocol that pose more than minimal risk to subjects;*
 - Is a multi-center protocol which presents more than minimal risk to subjects;*
 - Uses gene transfer or gene therapy methodology;*
 - Requires special scrutiny because of high public interest or public perception of risk;*
 - NIAID policy mandates that it be reviewed by the NIAID Intramural Data and Safety Monitoring Board (DSMB).*
- **Medical Monitor:** is an independent medical expert that advises the study investigators and monitors participant safety. A study may choose to employ the services of, or may be appointed a Medical Monitor. The role of the Medical Monitor is to:*
 - 1) Review all adverse events (AEs) on a regular basis throughout the trial;*
 - 2) Be available to advise the investigators on trial-related medical questions or problems,*
 - 3) Evaluate cumulative subject safety data and make recommendations regarding the safe continuation of the study.*

The Medical Monitor will remain blinded throughout the conduct of the clinical trial unless unblinding is warranted to optimize management of an adverse event or for other safety reasons.

11 Statistical Considerations

This section should describe the statistical tests and analysis plans for the protocol.

11.1 Description of the Analyses

State the proposed formal design of the study (e.g., two-period crossover, two-by-three factorial parallel group, or case-control). If the design or interventions are complex, a schema may be included.

11.2 Appropriate Methods and Timing for Analyzing Outcome Measures.

An outcome measure is “an observation variable recorded for [participants] in the trial at one or more time points after enrollment for the purpose of assessing the effects of the study treatments”(Meinert 1986). Outcome measures should be prioritized. Generally, there should be just one primary variable, with evidence that it will provide a clinically relevant, valid and reliable measure of the primary objective (e.g., laboratory procedures, assays).

Give succinct but precise definitions of the outcome measures used to measure the primary and key secondary outcomes stated in the study objectives, including the study visits at which the samples will be obtained and the specific laboratory tests to be used.

Secondary outcome measures should be included, whether they add information about the primary objective or address secondary objectives. Discuss their importance and role in the analysis and interpretation of study results.

Discuss how the outcome measures will be measured and transformed, if relevant, before analysis (e.g., Is the primary variable binary, categorical, or continuous? Will a series of measurements within a participant be summarized, such as by calculating the area under the curve? For survival outcome measures, what are the competing risks and censoring variables?).

11.3 Addressing Study Objectives

Provide all information needed to validate your calculations, and also to judge the feasibility of enrolling and following the necessary numbers of participants.

In particular, specify all of the following:

- *Outcome measure used for calculations (almost always the primary variable)*
- *Test statistic*
- *Null and alternate hypotheses*
- *Type I error rate*
- *Type II error rate*
- *Assumed event rate for dichotomous outcome (or mean or variance of continuous outcome) for each study arm, justified and referenced by historical data as much as possible*

11.4 Sample Size Consideration

Provide all information needed to validate your calculations, and also to judge the feasibility of enrolling and following the necessary numbers of participants.

Note that the discussion of sample size should focus on the precision of the estimate of a certain quantity rather than the properties of a statistical hypothesis test.

In particular, specify all of the following:

- *Assumed rates of drop-out, withdrawal, cross-over to other study arms, missing data, etc. also justified*
- *Approach to handling withdrawals and protocol violations, i.e., whether “intent to treat”*
- *Statistical method used to calculate the sample size, with a reference for it and for any software utilized*
- *Method for adjusting calculations for planned interim analyses, if any*
- *Present calculations from a suitable range of assumptions to gauge the robustness of the proposed sample size.*
- *Discuss whether the sample size also provides sufficient power for addressing secondary objectives, or for secondary analyses in key subgroup populations.*

11.5 Participant Enrollment and Follow-Up

Summarize the total number of enrolled participants and the total duration of accrual and of final follow-up.

Be specific about the number of clinical sites and the expected recruitment and retention capabilities of each site. Be explicit about distinct stages in enrollment, if applicable.

Identify strategies for subject retention. Discuss plans for maintaining the cooperation of the study population as well as plans for addressing any anticipated changes in the composition of the study population over the course of the study. Data should be presented supporting recruitment retention estimates.

11.6 Final Analysis Plan

This section can be used to elaborate on primary analyses that underlie the sample size calculation and to describe secondary analyses for the primary or secondary objectives.

- **Description of the Statistical Methods to Be Employed:** *The ability to detect a clinically relevant effect, or power, can be augmented by determining the correct design and correct sample size for the study and by carefully considering the principal end point of interest, the magnitude of effects that would be of clinical importance, and the acceptable probabilities of making an error. If specialized statistical techniques (e.g., methods for sequencing or microarray analysis) will be used, discuss and indicate who will be performing the analysis.*
- **Level of Significance to be Used:** *The way in which statistical significance is determined depends on the design of the trial and the manner in which the trial questions are specified. Statistical significance can be achieved only if the size of the sample is adequate for identifying an effect of the magnitude that is of interest. Also, statistical significance at a particular level is more likely to be observed if*

accumulated study data are repeatedly tested for significance. If repeated evaluation is planned, it should be specified in the protocol.

- **Accrual and Sample Size Considerations:** *Give the rationale for the proposed sample size. Present calculations from a suitable range of assumptions to gauge the robustness of the proposed sample size. Discuss whether the sample size also provides sufficient power for addressing secondary objectives, or for secondary analyses in key subgroup populations. To determine the sample size, select the maximum probability of errors (or statistical power) that can be made. It is reasonable and customary to allow a maximum type I error probability of no greater than 5% and a maximum type II error probability of no greater than 20%, or else 10% for each type of error.*
- **Relationship(s) of Endpoints to Calculations:** *Determining the size of the sample depends on the nature of the end points. The objective should have one clearly definable, readily quantified end point. To compare differences in quantities, identify how large a difference is of interest if a difference rarely exists between the interventions being compared. To identify reasonable differences in interventions, review existing literature on the treatments to obtain the best estimates for the patient population. Decide if the difference between groups is to be evaluated by a one-sided or a two-sided hypothesis test. The standard approach in many fields is to select a two-sided hypothesis test in order to allow for the possibility that observed differences, if any, may be opposite to those expected.*
- **Analysis Plan:** *Outline how data will be transformed and analyzed. If the analysis involves paired or repeated measurement data, describe the appropriate methods. If necessary, provide details to check assumptions required for certain types of data, e.g., proportional hazards, normality, etc. Describe whether multivariate analysis will be used for prediction or for controlling extraneous variables in a hypothesis test. If regression methods will be used, describe how the parsimonious model will be selected. If appropriate, describe how the final model will be interpreted.*
- **Analysis of Variables:** *Indicate independent and dependent variables. Outline how these important variables will be analyzed. Variables may be classified as nominal, ordinal, or interval. These three types of classifications are sometimes overlapped.*
- **Safety Analysis:** *The primary measure of safety of the study agent should be defined. It is not intended that every adverse event be subjected to rigorous statistical evaluation.*
- **Exploratory Analyses:** *Exploratory analysis is analysis that is not stated in the original analysis plan. For example an interesting or unanticipated effect or event that warrants a closer analysis of data.*
- **Handling of Missing and Spurious Data:** *Describe how missing data, outliers, noncompliance and losses to follow-up will be handled in the analyses.*

12 Quality Control and Quality Assurance

(Sample Language)

Definitions:

- Quality assurance (QA): the systematic and independent examination of all study-related activities and documents. These audits determine whether the evaluated activities were appropriately conducted and that the data were generated, recorded, analyzed, and accurately reported according to protocol, standard operating procedures (SOPs).
- Quality control (QC): periodic operational checks within each functional department to verify that clinical data are generated, collected, handled, analyzed, and reported according to protocol, SOPs.

Following written standard operating procedures, the monitors will verify that the protocol is conducted and data are generated, documented (recorded), and reported in compliance with the protocol and the applicable regulatory requirements.

The investigator will provide direct access to all study related sites, source data/documents, and reports for the purpose of monitoring and auditing by the sponsor, and inspection by local and regulatory authorities.

Quality control procedures will be implemented on the data entry system. Data quality control checks will be run on the database and reports will be generated. Any missing data or data anomalies will be communicated to the site(s) for clarification/resolution.

This section will indicate the plans for local quality control (QC). Each site should have standard operating procedures (SOPs) for quality management. Data will be evaluated for compliance with protocol and accuracy in relation to source documents. The study will be conducted in accordance with procedures identified in the protocol. The types of materials to be reviewed, who is responsible, and the schedule for reviews may be specified or referenced in other documents. Types and mechanisms of training of staff for the study should be specified.

Specify whether the study will be conducted at multiple centers or a single center.

SOPs must be used at all clinical and laboratory sites. Regular monitoring and an independent audit must be performed according to NIAID intramural policy which may be reviewed on the RCSHPB portal/Clinical Trial Management (CTM)/Protocol Monitoring/NIAID Intramural Clinical Protocol Monitoring Guidelines).

Briefly describe methods (e.g., site monitoring) for assuring protocol compliance, ethical standards, regulatory compliance and data quality.

13 Ethics/Protection of Human Subjects

This section should include a description of the ethical considerations and context for the conduct of the trial.

13.1 The Belmont Report

(Sample Language)

In accordance with the [FWA00005897](#): “This institution assures that all of its activities related to human subject research, regardless of funding source, will be guided by the ethical principles of The Belmont Report.” Additionally, the investigator assures that all activities of this protocol will be guided by the ethical principles of The Belmont Report, 45 CFR 46 and all of its subparts (A, B, C and D).

13.2 Declaration of Helsinki *(if applicable)*

(Sample Language)

The study will be conducted in accordance with the design and specific provisions of this IRB-approved protocol, and in accordance with the ethical principles that have their origin in the Declaration of Helsinki.

Note that Helsinki may not be applicable to your protocol. Only include this statement if it applies to your study (e.g. it has been requested by your sponsor or IRB/EC.) If the study is conducted at international sites, you may be asked to include a statement about compliance with the appropriate regulatory authority, (in-country or international, such as CIOMS, WHO, etc...)in addition to the NIAID IRB's FWA listed above.

(Sample Language, if applicable)

The investigator will ensure that this study is conducted in full conformity with the International Conference for Harmonization Good Clinical Practice (ICH-GCP) regulations and guidelines.

Note that if you are requested by your sponsor to include ICH-E6 compliance language you may wish to place it here. Generally, ICH-E6 is applicable to clinical trials, not natural history studies, only include the language for ICH-E6 if you have been requested to by a Sponsor or IRB/EC. Note that the Domestic FWA (of NIH for example) does not comply with ICH-E6.

13.3 Institutional Review Board

(Sample Language)

A copy of the protocol, informed consent forms, other information to be completed by participants, such as survey instruments or questionnaires, and any proposed advertising/ recruitment materials will be submitted to the IRB for written approval.

The investigator must submit and obtain approval from the IRB for all subsequent amendments to the protocol, informed consent documents and other study documentation referenced above. The investigator will be responsible for obtaining IRB approval of the annual Continuing Review throughout the duration of the study.

The investigator will notify the IRB of serious adverse events and protocol violations.

To review the HHS regulations for the protection of human subjects (45 CFR 46.109) regarding regulations relating to items that require review by the IRB refer to: <http://www.hhs.gov/ohrp/humansubjects/guidance/45cfr46.htm#46.109> .

Each participating institution must provide for the review and approval of this protocol and the associated informed consent documents by an appropriate ethics review committee or Institutional Review Board (IRB). Any amendments to the protocol or consent materials must also be approved before they are placed into use.

In both the United States and in other countries, only institutions holding a current U. S. Federal-Wide Assurance issued by the Office for Human Research Protections (OHRP) may participate. For guidance on FWAs, refer to: http://www.hhs.gov/ohrp/assurances/assurances_index.html . To search an institution to see if they have a FWA: <http://ohrp.cit.nih.gov/search/asearch.asp#ASUR> .

Other items under IRB oversight

All materials utilized for recruitment of participants including advertisements, study websites, pamphlets, and flyers must be reviewed by the IRB. An IRB is required to ensure that appropriate safeguards exist to protect the rights and welfare of research subjects. In fulfilling these responsibilities, an IRB is expected to review all the research documents and activities that bear directly on the rights and welfare of the subjects of proposed research.

Note also that certain activities regarding the disposition and use of stored samples is also subject to IRB oversight, please see protocol [Section 7](#) .

13.4 Informed Consent Process

(Sample Language)

Informed consent is an ongoing, interactive process that is initiated when the discussion regarding participation on the study begins and continues throughout study participation. The research team will discuss the study's purpose, procedures, risks, potential benefits, and the rights of participants with the participant/[legal guardian], to help him/her make educated decisions about whether to begin or continue participation in the trial. Ample opportunity will be made for the investigator and the participant to exchange information and ask questions. Participants will sign and date the informed consent document prior to undergoing any protocol specific procedures. Participants may withdraw consent at any time throughout the course of the study.

The acquisition of informed consent will be documented in the participant's medical record. The original signed informed consent form will be retained in the medical chart and a copy will be provided to the participant.

Describe the procedures for obtaining and documenting informed consent of study participants. If conducting the study at the NIH Clinical Center (CC), refer to the MAS Policy (M77-2), for guidance. Make provisions for special populations, e.g., non-English

speakers, children, illiterate or non-writing individuals, vulnerable populations. If conducting the study at the CC with cognitively impaired subjects, refer to the MAS Policy s (M87-4), for guidance. If conducting the study at the CC with children, refer to the MAS Policy (M92-5), for guidance.

Except as described in [45 CFR 46.117](#), informed consent is required for all subjects participating in an NIAID-sponsored study. In obtaining and documenting informed consent, the investigator should comply with applicable regulatory requirements and should adhere to GCP and to the ethical principles that have their origin in the Declaration of Helsinki. Prior to the beginning of the study, the investigator must have the IRB/Independent Ethics Committee's written approval/favorable opinion of the written informed consent form(s) and any other written information to be provided to the participants.

Ethical considerations and Federal regulations (45 CFR 46) require that investigators obtain the informed consent of the subject or permission from the subject's legally authorized representative as defined in 45 CFR 46.102(c) before any research procedures are initiated. Informed consent is a process that is initiated prior to the individual's agreeing to participate in the study and continuing throughout the individual's study participation.

The consent form shall include all elements required by 45 CFR 46.116 and any other information needed for an individual to be fully informed about study participation. The consent process and document shall not include language waiving or appearing to waive any legal rights of the subject or releasing or appearing to release the investigators, sponsor, or institution from liability.

In certain circumstances (e.g., illiterate research subjects) an IRB approved written summary of what the PI (or person authorized to obtain consent) will say to the subject or his/her legally authorized representative will be presented and signed by the person obtaining consent and an impartial witness to the oral presentation. A short written consent form stating that the required elements of consent as required by 45 CFR 46.116 and NIH Clinical Center policy M77-2-rev., were presented orally to the subject by the PI (or his designate) shall be signed by the subject and an impartial witness who observed the presentation of information. Copies of both documents will be given to subjects or their representatives and filed in the participant's medical record.

If there is a non-English speaking participant, an IRB approved translated consent document shall be presented as per 45 CFR 46.117 (b)(1) and NIH Clinical Center policy M77-2-rev.

In the case of participants who are cognitively impaired or a protocol that will involve participants who are cognitively impaired refer to NIH Clinical Center Policy M87-4. Additionally, it is strongly suggested that you seek consultation with the Department of Clinical Bioethics.

Screening Consent: If screening procedures are required for eligibility (e.g., laboratory tests), there must be a separate screening consent form in addition to the informed consent form for study participation. Specify allowable windows for pre-entry evaluations relative to screening evaluations and study entry.

If a separate screening consent is required for the study, the Screening and the Study consents/assents should be provided to the participant/participant's guardian in sufficient time prior to start of study participation for the participant to fully review, comprehend and discuss the contents. For guidance on informed consent refer to the [OHSR Information Sheets/Forms - Sheet 6 GUIDELINES FOR WRITING INFORMED CONSENT DOCUMENTS](#).

13.4.1 Assent or Informed Consent Process (in Case of a Minor)

Assent: When a prospective subject is not capable of informed consent, this section should discuss satisfactory assurance that permission will be obtained from a duly authorized person. In the case of a child who is sufficiently mature to understand the implications of informed consent but has not reached the legal age of consent, knowing agreement, or assent, will be obtained, as well as the permission of a parent, or a legal guardian or other duly authorized representative.

If a study includes participants who may only be enrolled in the study, via the permission of the participant's legally acceptable representative (e.g., minors or participants with severe dementia); the study must inform the participants to the greatest extent possible about the trial, consistent with the participant's level of understanding. If capable, the participant should assent and sign and personally date the written consent form. A separate IRB-approved assent form, describing (in simplified, age-appropriate terms) the details of the study agent/intervention(s), study procedures and risks may be used. Assent forms do not substitute for the consent form signed by the participant's legally acceptable representative. Refer to [45 CFR 46.408](#) for requirements on obtaining consent from Parents and Guardians and obtaining Assent from Children. If conducting the study at the CC with children, refer to the MAS Policy (M92-5), for guidance.

13.5 Justification for Exclusion of Women, Minorities, and Children (Special Populations)

If the study intends to exclude any special populations, justify the exclusion of women, minorities or children in the context of the study design. Use this section only if not previously addressed in [Section 5.2 – Participant exclusion criteria](#).

Exclusion of Women: *(if applicable)*

Exclusion of Minorities: *(if applicable) If minorities will not be recruited, explain why not. Provide justification for exclusion in Ethics/Protection of Human Subjects section.*

Exclusion of Children: *(if applicable) If children will not be recruited, explain why not. Provide justification for exclusion in this section. For more information on special protections for children, refer to [45 CFR 46, Subpart D](#). For more information on NIH policy regarding including children in research refer to the, "[NIH POLICY AND](#)*

GUIDELINES ON THE INCLUSION OF CHILDREN AS PARTICIPANTS IN RESEARCH INVOLVING HUMAN SUBJECTS".

13.6 Participant Confidentiality

(Sample Language)

The investigator will ensure that the participant's privacy and confidentiality is maintained. Participants will not be identified in any published reports of this study. All records will be kept confidential to the extent provided by federal, state and local law. In addition, the investigator shall inform participants that study monitors and other representatives of the Sponsor may inspect documents and records required to be maintained by the investigator. The investigator will inform the participants that Sponsor representatives are bound by agreement and the law to maintain subject privacy and confidentiality. All laboratory specimens, evaluation forms, reports, and other records that leave the collection site will be [identified only by a coded number/ de-identified] in order to maintain participant confidentiality. Personally identifiable information in electronic data management systems will be protected compliant with regulatory requirements and federal computing security requirements to preserve privacy and confidentiality. Clinical information will not be released without written permission of the participant, except as necessary for monitoring by the IRB/EC, NIAID, and OHRP.

Include procedures for maintaining participant confidentiality, any special data security requirements, and record retention per the sponsor's requirements.

Participant confidentiality is strictly held in trust by the participating investigators, their staff, and the sponsor(s) and their agents. This confidentiality is extended to cover testing of biological samples and genetic tests in addition to the clinical information relating to participating subjects.

The study protocol, documentation, data and all other information generated will be held in strict confidence. No information concerning the study or the data will be released to any unauthorized third party, without prior written approval of the sponsor. For further guidance on sharing data with collaborators refer to the Office of Technology Development.

The study monitor or other authorized representatives of the sponsor may inspect all documents and records required to be maintained by the Investigator, including but not limited to, medical records (office, clinic or hospital) and pharmacy records for the participants in this study. The clinical study site will permit access to such records.

The Federal Privacy Act protects the confidentiality of study participants' NIH medical records. However, the Act allows release of some information from the medical record without the subjects' permission, for example, if it is required by members of Congress, law enforcement officials, or other authorized persons. To view the amended Federal Privacy Act go to: <http://www.usdoj.gov/foia/privstat.htm>

13.7 Study Discontinuation

In the event that the study is discontinued, (including for administrative reasons such as termination for non-compliance with Continuing Review policies) provide a plan for the following:

- *The proposed procedures for withdrawal of currently enrolled subjects that considers their rights and welfare. This plan must be submitted to the IRB within 30 days of notice of termination.*

14 Data Handling and Record Keeping

Include instructions for special data handling or record keeping procedures required for maintaining participant confidentiality, any special data security requirements, and record retention per the sponsor's requirements in this section.

Briefly describe steps to be taken to assure that the data collected are accurate, consistent, complete and reliable and in accordance with ICH GCP guidelines. The description should include reference to source documentation, case report forms, instructions for completing forms, data handling procedures, and procedures for data monitoring. Details may be provided in a Manual of Procedures (MOP), User's Guide or other citable reference document.

14.1 Data Management Responsibilities

Describe responsibilities for data handling and record keeping as they specifically relate to the sponsor, clinical site, laboratory, and data coordinating center (if applicable). Information should include who is responsible for data collection, review of data, trial materials, and reports, as well as retention of source documents, files, and records. Describe coding dictionaries to be used and reconciliation processes (if applicable).

All source documents and laboratory reports must be reviewed by the clinical team and data entry staff, who will ensure that they are accurate and complete. Adverse Events must be graded, assessed for severity and causality and reviewed by the site Principal Investigator or designee.

Data collection is the responsibility of the clinical trial staff at the site under the supervision of the site Principal Investigator. During the study, the Investigator must maintain complete and accurate documentation for the study.

If data are to be generated in one location and transferred to another group, describe the responsibilities of each party.

Indicate the roles of each party with regard to interpretation of data, plans for analysis, review of tables and listings, and plans for reporting.

Data Sharing Procedures, if applicable: Describe briefly the expected schedule for data sharing, a brief description of the data sharing agreement (including the criteria for deciding who can receive the data and whether or not any conditions will be placed on their use), and the mode of data sharing (e.g., by mailing a disk or posting data on a website, through a data archive or enclave). Specific issues and opportunities related to sharing resources developed at a foreign site should be mentioned.

If data such as, information, biological materials or laboratory samples will be shared with outside collaborators, you must work with NIAID's Office of Technology Development to determine the proper vehicle for such a collaboration. For the definition of a Materials Transfer Agreement (MTA) or Cooperative Research and Development Agreement (CRADA), go to: http://www3.niaid.nih.gov/about/organization/odoffices/omo/otd/When_to_use_MTA_CRADA.htm . Contact the NIAID Office of Technology Development and ask to speak with the DIR Team at 301-496-2644.

14.2 Data Capture Methods

Identification of direct CRF input data and other source data

Provide details regarding the type of data capture that will be used for the study. Specify whether it will be paper or electronic, distributed or central, batched or ongoing processing, and any related requirements

14.3 Types of Data

Indicate the types of data that will be collected, such as safety, laboratory (clinical, immunology and other study specific), and outcome measure data. Specify if safety data are collected in a separate database.

14.4 Source documents and Access to Source Data/Documents

(Sample Language)

Study data will be collected on case report forms (CRF) designed for the study [or in an electronic data system (CRIMSON)]. The Principal Investigator is responsible for assuring that the data collected is complete, accurate, and recorded in a timely manner. Source documentation (the point of initial recording of a piece of data) should support the data collected on the case report form [in CRIMSON], and in the case of CRFs, be signed and dated by the person recording and/or reviewing the data. Source documents include recordings of observations or notations of clinical activities and all reports and records necessary for the evaluation and reconstruction of the clinical trial. Data for CRFs will be collected during visits and phone calls with subjects and health care providers, participant diaries and abstracted from the medical record. The CRF form may act as the source document for the following study procedures: [Specific procedures]. It is not acceptable for the CRF to be the only record of a subject's participation in the study. This is to ensure that anyone who would access the medical record has adequate knowledge that the subject is participating in a research study.

Appropriate medical and research records for this study will be maintained in compliance with regulatory and institutional requirements for the protection of confidentiality of participants. Describe who will have access to records. Authorized representatives of the sponsor(s), NIAID, and regulatory agencies will be permitted to examine (and when required by applicable law, to copy) clinical records for the purposes of quality assurance reviews, audits and evaluation of the study safety and progress.

Source data are all information, original records of clinical findings, observations, or other activities in a study necessary for the reconstruction and evaluation of the protocol. Examples of these original documents and data records include, but are not limited to, hospital records, clinical and office charts, laboratory notes, memoranda, participants' diaries or evaluation checklists, pharmacy dispensing records, recorded data from automated instruments, copies or transcriptions certified after verification as being accurate and complete, microfiches, photographic negatives, microfilm or magnetic media, x-rays, and participant files and records kept at the pharmacy, at the laboratories, and medico-technical departments involved in the study.

14.5 Timing/Reports

Indicate the schedule for data review and reports, how outcome measure data are collected and monitored. Specify whether reviews or reports are ongoing, interim, or periodic. Identify plans for data analysis and final study reports, steps for freezing the data prior to analysis. Indicate whether and when coding is to occur.

14.6 Study Records Retention

Specify the length of time for the investigator to maintain all records pertaining to this study. Indicate whether permission is required (and from whom) prior to destruction of records.

The investigator is responsible for retaining all essential documents listed in the NIH policy "1743-Keeping and Destroying Records" for records retention. All essential documentation for all study subjects are to be maintained by the investigators in a secure storage facility for a minimum of three years, per [NIH FWA \(OHRP Guidance on Written IRB Procedures B.5.\)](#). These records are also to be maintained in compliance with IRB/EC, state, and federal medical records retention requirements, whichever is longest. All stored records are to be kept confidential to the extent provided by federal, state, and local law.

15 Publication Policy

(Sample Language)

This protocol will be registered on [ClinicalTrials.gov](#), as sponsored by the National Library of Medicine, to meet publication requirements by the ICMJE.

At the April 18, 2006 MEC meeting, it was decided that all NIH clinical studies be registered online unless granted an exemption by the CC director. One exception to this

rule are Stored Sample Studies where no participant enrollment is involved, for more information, contact the NIAID IRB Office.

Publication of the results of this trial will be governed by NIAID publication policies. Any presentation, abstract, or manuscript will be made available for review (according to division requirements if any), prior to submission. For NIAID pre-publication clearance see [Obtaining Pre-Publication Clearance for Intramural Manuscripts](#) . For more information on the NIH Manuscript Submission System, see the [NIH Manuscript Submission Program](#).

In the case of collaborative studies with co-sponsoring agencies or other study groups/networks, any letter of agreement must note which Standard Operating Procedure for publication of research findings is used. See [Section 14.1 – Data Management Responsibilities](#) for information on obtaining agreements.

Additional Considerations for the above section:

If appropriate, the publication policy may be described in the study Manual of Procedures (MOP). The publication and authorship policies should be determined and clearly outlined in this section. Policies regarding substudies should be outlined in this section.

Appendices are supplemental material (e.g., flow diagrams or workup tables) or other documents (like the package inserts) may be added to the protocol as appendices. Appendices A-C are required or recommended as applicable to the specific study. Remember that modifications to appendices require submission of an amendment to the NIAID IRB as appendices are part of the protocol document.

It is not recommended that the Informed Consent Forms or the List of Persons Able to Obtain Informed Consent be included in the appendices. The Informed Consent form may require more frequent amendments than the remainder of the document and can easily become out-of-sync with the protocol. Note that the List of Persons able to Obtain Informed Consent may be revised and submitted to the NIAID IRB as an Information Item and does not require an Amendment request.

Appendix A: Scientific References

(This section is required)

References enable others to verify assertions in the protocol and to further pursue its topics, particularly the protocol's description of the present state of knowledge, the measures to be used, any risks/discomforts expected, and other points that are attributable to specific sources. Provide citations for publications and presentations referenced in the text of the protocol. For unpublished work, provide names and contact information. Use a consistent, standard, modern format. The preferred format is the Vancouver format, used in the American Medical Association Manual of Style

Access PubMed a service of the [NIH National Library of Medicine](http://www.nlm.nih.gov/), providing access to 12 million [MEDLINE](http://www.nlm.nih.gov/) citations and numerous life science journals as well as links to full text articles. Go to [PubMed](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi). <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi>

Appendix B: Schedule of Procedures/Evaluations

(This section is required)

(Sample Language)








Evaluation	Screening (-30 days)	Baseline (-14 days)	Day 0	4	8	12	16	20	24	32	40	48	Prem. Disc. Evals.
Medical/Medication History													
Clinical Assessment													
<i>[Complete/Targeted] Physical Exam</i>													
<i>[Other Clin. Assess. components if on a different schedule]</i>													
Hematology													
PT/PTT													
Chemistry													
Liver Function Tests													
Urinalysis													
Pregnancy Testing													
Chest X ray													
HIV-1 RNA (real time)													

Appendix C: Lab Processing Flow Sheet/Template for Specimen Collection

Appendices: OPTIONAL

Add any desired appendices, remember to update the “OPTIONAL” with the correct description.

To create a new appendix:

- Insert a page break after each new appendix by Clicking **Insert**, Selecting “**B**reak”, Select “**S**election break types”, Click “**N**ext page”, Click “**O**k”
- Once the new page is created, insert the new section header by copying and pasting the new section header, on the new page, from the previous section header, e.g., “Appendices: OPTIONAL”:
 - Scroll to the “Appendices: OPTIONAL”
 - Click and drag over the section header **Appendices:OPTIONAL**
 - On the tool bar, Click  (copy)
 - Then scroll down to the new section (blank page)
 - On the tool bar, Click  (paste)
 - Click  (save).
- Rename the “OPTIONAL” with the new appendix name:
 - Click and drag over the section header **Appendices:OPTIONAL**
 - Type the new name of the appendix.
 - Click  (save).
- To update the Table of Contents (TOC) to include the new appendix(es):
 - Scroll or Page-up to the TOC.
 - Right-click somewhere in the TOC, it will highlight gray.
 - A pop-up menu will appear, Select  Update Field
 - To grab the new appendices, Select  Update entire table
 - Click  (save).

For assistance with problems relating to the Table of Contents or any of these instructions, please feel free to contact Heather Bridge at 301-451-2419.